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## GENERAL MEETING OF THE DEPARTMENT OF TECHNICAL SCIENCES 29 SEPTEMBER 1948

On 29 September 1948, at the meeting of the Department of Technical Scichoes, Academician B. A. Vvedenskiy, Academician-Secretary of the Department, presented the plan for scientific research work for the Department for 1949. [Sot included in this report]. Corresponding Member of the Academy of Sciences USER, M. A. Kapelyushnikov presented a paper "Problems Encountered in Drilling Deep 011 Wells and Methods of Solving Them."

In his report, Kapelyushnikov acquainted those attending, with the basic problems in drilling down to new petroleum strata, and particularly in drilling very deep wells to the highly productive petroleum strata 5,000 meters deep. He showed some of the results of work which had been achieved in that field in the Institute of Petroleum, Academy of Sciences USER (formerly the Institute of Combustible Minerals). For instance hydraulic elevators have replaced the block and tackle system, still used at present for lovering and lifting operations. The Moscow Petroleum Institute imeni I. M. Gubkin helped in development of a mechanized automatic system for lovering and lifting operations in drilling. New varieties of turbo-drills, automatic spools for winding back drilling pipe, and a new system of lovering and lifting operations was also developed. The Institute conducted research on the lose of power during the drilling of deep wells; determined factors governing the operation of bits; conducted a study to determine the durability of bits; explained the use of gearless transmission in drilling; and conducted research on the use of sand-count mixtures for tamponage of wells.

Complex problems, which at present face Soviet scientists, are the creation of an effective method for drilling with beetle engines, the solution of problems relating to bits, problems on safety of drilling and bracing work, medianization of drilling, and the development of methods of preparing and using clay solutions and tampomage of the well under conditions of high presence and temperature.

Successful solution of these problems by the institute of Petroleum, Academy of Sciences USSR, allied institutes of the Academy of Sciences USSR, and branch institutes of the Petroleum Industry guarantee development of petroleum work technologies.

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The assistance of Academician A. M. Termigorov, L. D. Shevyakov, Ye. B. This Marker (All Union Petroleum Scientiff o-kersarch Institut), I. P. This are the Department of Technical Sciences), and E. T. This are (Moscow Moscow Institute imeni I. M. Gybkin), was acknowledged in incussion of the report.

The general meeting decided that the problems discussed in M. A. Kapelysahnikov's work have practical importance in the solution of problems of drilling deep-oil wells, in particular they acknowledged the necessity for organizing work on the problem of rock crushing in the Institute of Fetroleum. Academy of Sciences USER.

The meeting also selected some laboratory directors: Corresponding Member of the Academy of Sciences USSR, V. P. Vologdin, was selected as Director of the Laboratory of High Frequency Electrothermics; Corresponding Member of the Academy of Sciences USSR, V. I. Kovalenkov, was selected as Director of the Laboratory on Solution of Problems of Mire Communications.

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